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EPC/RFID Tracks Exports from Pearl River Delta to Germany

EPC/RFID技術追蹤珠三角出口至德國之貨件





EPCglobal Hong Kong, Hong Kong-based logistics operator Fat Kee Stevedores Limited and the METRO Group recently started the first successful end-toend use of EPC/RFID tags in the international supply chain from the Pearl River Delta (PRD) to Germany. This innovative technology enables a more efficient and transparent flow of goods - all the way from the PRD consolidation centre, to the distribution centre of the METRO Group in Unna, Germany.

the Pan Pearl River Delta (PPRD) is one of the world's principal manufacturing centres, accounting for 40% of China's GDP. There are some 80,000 factories in Guangdong, China set up by Hong Kong entrepreneurs. In 2004, the PRD alone accounted for more than 30% of China's total exports. Emerging technology such as EPC/RFID, which provides tracking and visibility of cargo in transit, can have a major effect on the efficiency and transparency of the supply chain. For this reason, the rapid development and adoption of EPC/RFID is a matter of strategic importance to the manufacturing base.

In October 2006, the METRO Group, one of the most important international retailers, initiated the Advanced Logistics Asia (ALA) project. The aim is to demonstrate how EPC/RFID technology can optimize goods flows on an international scale. As a consolidator, Fat Kee bundles cargo from PRD manufacturers and prepares

them for shipping to global retailers such as the METRO Group. In the ALA project, Fat Kee attaches passive EPC/RFID transponders based on the Generation 2 standard to selected shipments, programs them with tag printing equipment, and uses EPC compliant fixed readers to upload data to the Hong Kong EPCnetwork. The MGB METRO Group Buying Hong Kong (MGB) contributes its supply chain expertise to manage the entire process.

EPCglobal香港與香港集裝商發記運輸有限公司及麥德龍集 團(METRO Group)最近首次成功使用產品電子代碼/無線 射頻識別(EPC/RFID)標籤,點對點追蹤從珠三角至德國的 國際供應鏈之物流。這項創新技術的應用大大提高了發記 運輸於珠三角的集裝中心至麥德龍集團位於德國烏恩納的 配送中心整個物流程序的透明度。

珠三角是全球其中最主要的生產中心之一,其產量佔 中國國內生產總值的百分之四十。目前在廣東省便有 八萬家工廠由香港企業家所經營。於2004年,僅是來自泛珠 三角的生產量便佔中國總出口的百分之三十。只要採納EPC/ RFID這項新興技術來追蹤貨物和透視貨品資料,供應鏈的效率 及透明度便可以大大提高。因此,加速發展及採用EPC/RFID技 術已成為泛珠三角生產基地的企業的一項重要策略。

The rapid development and adoption of EPC/RFID is a matter of strategic importance.

加速發展及採用EPC/RFID技術 已成為一項重要策略。

全球其中一家最重要的連鎖零售商 麥德龍集團於2006年10月啟動了 「亞洲先進物流」(簡稱ALA)計劃, 目的是要引證EPC/RFID技術如何優 化國際供應鏈的貨物運輸程序。 發記運輸作為集裝商,負責將泛珠三 角製造商的貨物集中一起處理,然

後再運送給麥德龍集團等的全球大型零售商。在ALA計劃中, 發記運輸負責於指定付運船貨的紙板貨箱貼上第二代標準的 被動式EPC/RFID標籤,然後利用標籤打印機將標籤上資料程式 化,再運用符合EPC標準的閱讀器將數據上載至香港EPC網絡。 麥德龍集團採購部(香港)(MGB)的供應鏈專家亦參與監督整個 過程。

EPCglobal Hong Kong's EPC industry solution

The ALA project was the first to benefit from EPCglobal Hong Kong's EPC industry solution. EPCglobal Hong Kong provided Fat Kee with a turnkey EPC/RFID system which includes EPC/ RFID technology knowledge transfer, business process review, equipment, training, advisory services and consultancy, such as recommendations on EPC/RFID solution requirements, sourcing support and use of the Hong Kong EPCnetwork. The system was installed at Fat Kee's consolidation centre in Hong Kong as a trial and then relocated to the company's Yantian Port consolidation centre.

"The ALA project is an excellent model for the local logistics industry. It demonstrates how a local logistics firm can collaborate with an international retailer like METRO to enable efficient global supply chain tracking by adopting global standards such as EPC/RFID," said Anna Lin, Chief Executive of GS1 Hong Kong and EPCglobal Hong Kong. "By demonstrating the successful use of such standards based technology in the supply chain from the PRD to Europe, we are paving the way for more companies from different sectors to implement the global standards and experience the associated benefits that provide efficient supply chain tracking and visibility throughout global trade."

The Hong Kong EPCnetwork also handles the real-time shipment data. Such data is read by automatic identification devices (readers) and uploaded to the network. Once uploaded, this real-time information is immediately available

to all parties involved. The project therefore represents a model for future PRD trade flows, monitored by EPC/RFID tags using globally accepted EPC identifiers and yielding real-time information available to all trade partners.

Commenting on the success of the trial, Mr. David Kong, Managing Director of Fat Kee said, "We are honoured to be part of the team in the Advanced Logistics Asia initiative. By using this advanced RFID technology, supply chain visibility is increased significantly." Mr. Kong further elaborated,

"With this implementation, we are seeing substantial benefits to our customers, gaining information which was previous not possible without this RFID technology. We believe this project, which combines RFID usage and the Internet, will revolutionize supply chain management."

The Hong Kong EPCnetwork

The Hong Kong EPCnetwork was launched in 2005 and its purpose is to create end-to-end supply chain information visibility by enabling manufacturers, logistics providers and global retailers to track and trace supply chain information about their cargo goods flow by using EPC/RFID technology.

The numbering standard used to program the passive tags for Fat Kee, assigned by EPCglobal Hong Kong, is another key part

EPCglobal香港提供EPC業界方案

ALA計劃是首個受惠於EPCqlobal香港的EPC業界解決方案的項目。 在這計劃中,EPCglobal香港為發記運輸提供完備的EPC/RFID配套 系統,這系統包括EPC/RFID技術知識轉移、業務程序檢討、設 備、培訓、諮詢和顧問服務,當中包括就EPC/RFID技術方案的要 求、資源搜尋支援以及如何使用香港EPC網絡等範疇提供建議。 該EPC/RFID配套系統首先於發記運輸之香港的集裝中心進行測 試,然後再被遷往發記運輸位於鹽田港的集裝中心。

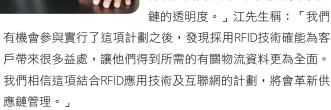
香港貨品編碼協會暨EPCglobal香港總監林潔貽女士表示: 「ALA計劃為本地物流業提供了優良的典範,引證本地物流公 司如何與麥德龍集團等國際大型零售商合作,共同採納EPC/ RFID全球技術標準來實現高效的全球供應鏈貨物追蹤。」林女 士稱:「這次成功地在泛珠三角至歐洲的供應鏈採用標準化技 術,我們正好為不同業界邁向實施全球供應鏈標準作好準備, 讓各界體會高效供應鏈追蹤及高透明度為全球貿易帶來的益 處。.

香港EPC網絡可以即時處理船運數據。當這些數據被自動識別 設備(閱讀器)讀取後便隨即上載至網絡中,數據一經上載後, 各相關貿易夥伴便能獲取實時的相關資料。因此,ALA計劃正

> 好展示泛珠三角未來貿易流的模 式 - 利用印有全球認可的EPC識別 碼的EPC/RFID標籤監控物流程序, 為所有相關貿易夥伴提供實時的貨 運資料。

發記運輸有限公司董事長江卓崙就 這次的成功試驗表示:「我們很榮 幸能夠參與ALA計劃。RFID技術在 物流方面的應用,大大提高了供應

戶帶來很多益處,讓他們得到所需的有關物流資料更為全面。 我們相信這項結合RFID應用技術及互聯網的計劃,將會革新供



香港EPC網絡

香港EPC網絡於2005年推出,目的是要提供點對點供應鏈資料 透明度,讓製造商、物流服務供應商及全球零售商能夠利用 EPC/RFID技術追蹤付運中貨物的供應鏈資料。

由EPCglobal香港簽發之編碼標準,亦是麥德龍集團ALA計劃 的其中重要一環,那些程式化的編碼標準被裝載於被動式 of this project. In METRO Group's initiative Advanced Logistics Asia, the tags contain GS1 Serial Shipping Container Code (SSCC). Such code will be captured by EPC readers and uploaded to the network, which lets Fat Kee and MGB access database information about the contents of the cartons such as stock keeping units, quantity, shipment information, weight, volume and location of goods. Initial results of tag reading are very impressive, with the success read rate of data capture up to 99%, according to the METRO Group.

When EPC/RFID technology is used routinely, EPC/RFID tags will be applied not only by consolidators, but by individual manufacturers that load full containers.

Automatic shipment order reconciliation

Before loading tagged cartons into containers, the tag data are reconciled with the purchase orders. Previously, warehouse workers had to check each shipment individually, a lengthy procedure that may lead to errors. EPC/RFID technology enables automatic reconciliation of each consignment, without having to check each carton with line-of-sight barcode readers.

Fat Kee ships the consignments first to Rotterdamin the Netherlands, then to the METRO Group distribution centre in Unna, Germany, where the tags are read again. Reading at the receiving port instantly reveals whether the incoming goods match the previously advised shipment details. The goods are then available for distribution to the stores of METRO Group.

Fat Kee's customer was well satisfied. "EPC/RFID technology gives us complete visibility on consignments, their content and

their location, at every stage in the supply chain, right into our own distribution centre," said Dr. Gerd Wolfram, Managing Director of MGI METRO Group Information Technology. "We can reconcile shipped goods with purchase orders in real time; moreover the handling time for incoming goods is shortened significantly."

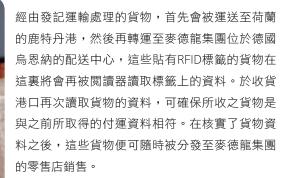
EPCglobal Hong Kong is set to accelerate EPC implementation in both Hong Kong and the Pearl River Delta region. We are leading the drive to make EPC/RFID technology the tool for the next generation of supply chain management solutions.

標籤上,由EPCglobal香港分配給發記運輸貼 於貨箱上。這些標籤均印有GS1貨運容器序碼 (Serial Shipping Container Code - SSCC), 序碼內的 資料先由EPC閱讀器讀取後再上載至網絡,讓 發記運輸及MGB可以從數據庫中取得存貨單位、 貨物數量、付運資料、重量、容積及貨物位置等 貨物資料。麥德龍集團表示,讀取標籤的初始成 效非常理想,成功的數據讀取率達百分之九十 九。

當EPC/RFID技術日後被廣泛地應用,我們相信不 單是集裝商,而需採用整個貨櫃付運的製造商亦 會同時受惠。

自動核實付運單據

貼上了標籤的貨箱被裝入貨櫃之前,貨倉工作人員必須核對貨 箱標籤上的資料是否與採購訂單的一致,以確保所付運的貨物 準確無誤。以往工作人員需逐次檢查每批船運貨物的單據,這 過程冗長,容易導致出錯。利用EPC/RFID技術則可以進行自動 校對每批運送貨物的程序,省卻利用人手操控條碼閱讀器檢查 每個貨箱的程序。



發記運輸的客戶相當滿意這計劃的成果。 麥德龍集團信息科技董事總經理Gerd Wolfram博士 表示:「利用EPC/RFID技術可讓我們對所付運貨 物的透明度,包括貨物種類、位置,以及於供應

鏈的每個程序,直至抵達我們的配送中心,這期間的所有資 料,都可以一目了然。」Wolfram稱:「我們可以實時的核對付 運貨物與採購訂單所列的是否一致;除此之外,處理進口貨件 的時間亦較以往大為減少。」

EPCglobal香港一向致力在香港及珠三角地區推廣採用EPC標 準。我們現正全速推動EPC/RFID技術發展成為新一代的供應鏈 管理解決方案的有效工具。



Helping SMEs to Manage Inventory Better

幫助中小型企業加強倉存管理





■ MEs face common problems in inventory management such as record inaccuracies, data discrepancies, accumulation of ageing and slow-moving items, inefficiencies arising from manual procedures and the lack of inventory management know-how. Moreover, they often lack the knowledge and resources to improve their operations.

GS1 Hong Kong is well positioned to help local SMEs in optimizing operational efficiency. Between 2002 and 2004, with support from the Hong Kong SAR Government's Trade

and Industry Department, we successfully implemented our SME Ambassador Program for IT automation.

Building upon that success, in 2006, we launched the "SME Ambassador Program - Inventory Management" to help SMEs to improve inventory management. Five SMEs were selected from different industries and we subjected their inventory processes to a thorough professional analysis, covering the receipt of goods, storage, dispatch, returns,

monitoring and management of inventory and warehouse supervision. The study also included the IT systems and the use of bar codes.

小型企業經常面對的倉存管理問題,包括紀錄失準、 資料不符、積壓過時或流量慢的貨品、人手作業欠效 率及缺乏倉存管理技術,且一般欠缺改善營運的知識及資源。

香港貨品編碼協會一向致力協助本地的中小企優化營運效率。 在2002至2004年間,我們獲香港特區政府工業貿易署的支 持,成功推出關於資訊科技自動化的中小型企業大使計劃。

In 2006, GS1HK launched the "SME Ambassador Program – Inventory Management" to help SMEs to improve inventory management.

2006年推出一項以"倉存管理" 為主題的中小型企業大使計劃, 幫助中小企改善倉存管理。

我們憑藉過往推行中小型企業 大使計劃的成功經驗,再接再 勵於2006年推出一項以"倉存 管理"為主題的中小型企業大 使計劃,幫助中小企改善倉存 管理。我們選出五家不同行業 的中小企,為其倉存運作流程 進行詳盡的專業分析, 範圍包 括收貨、貯貨、出貨、退貨、

倉存管理與監察,以及倉庫監控程序。研究亦包括資訊科技系 統及條碼應用。

Case 1: Tackling limited storage space 個案一:善用有限的儲存空間

Company Background 3-MED Medical Instruments Co. Ltd. supplies rehabilitation products, ranging from large items such as wheelchairs and crutches, down to diapers and oxygen breathing catheters, for the local market and export trade.

Business Challenge The inventory challenges faced by 3-MED included limited storage space for the extensive product range, with the same products being placed in multiple locations, leading to heavy reliance on human memory in warehousing practice and misplacing of small goods during delivery. Products such as diapers, catheters had expiry dates that needed strict stock control.

Recommendations GS1 Hong Kong recommended 3-MED to designate and clearly label functional zones for goods-in, goods-out, returned goods, waste, fire-safety passageways, transportation passageways and showrooms. We introduced uniform cartons for efficient stacking and established procedures for returned goods. A "First In, First Out" (FIFO) method of inventory placement was also recommended to manage goods with expiry dates, minimizing the chance of products becoming obsolete due to expiration. EPC based radio frequency identification technology could also improve goods tracking especially for high-value items.

公司資料 三星醫療器材有限公司(「三星」)為本地及海外市場提供復康產品,包括輪椅及 杖等大型用品,以至紙尿褲及氧氣呼吸喉管等。



業務挑戰 三星在倉存方面所面對的挑戰,包括缺乏足夠的空間存放種類繁多的產品,同一種貨品被存放在不同的位置,以致日常倉務事宜亦多依靠人為記憶來處理,而又曾在運送時遺漏了細小的貨件。紙尿褲及導管等有使用期限的產品,亦需要嚴格的倉存監控程序。

建議 香港貨品編碼協會向三星建議,將倉庫清楚設定為不同區位,包括收貨區、出貨區、退貨區、廢貨區、安全走火通道、運貨通道及陳列室,並明確標示各貨區。我們建議三星使用劃一尺碼的紙板箱來方便堆疊貨物及制定退貨程序,亦建議採用「先進先出」(FIFO)的存貨擺放方法來處理有使用期限的貨品,以減少因過期而報廢貨品的機會。而採用產品電子代碼/無線射頻識別技術(EPC/RFID),則可以改善貨品追蹤,尤其適用於高價貨品。

Case 2: Bar coding paper products for food and beverage 個案二:為紙類餐飲產品編碼

Company Background Kwong Wah Paper Products (HK) Co. Ltd. manufactures a range of disposable products for the food and beverage industry, such as paper cups and plates.

Business Challenge The big range of colours, textures and sizes made it difficult for customers to order accurately. Products with expiry dates had proved troublesome to manage.

Recommendations GS1 Hong Kong recommended Kwong Wah should adopt Global Trade Item Number (GTIN). Each version of every product can have a unique identification number which can be marked with a bar code, and scanned into the IT database, improving the efficiency of inventory management and tracking products movements. RFID can also be considered for use with EPC numbers.



In order to support FIFO inventory turns, the expiry dates of products should be part of the item number that is scanned into the computer database. 公司資料 光華紙業(香港)有限公司(「光華」)生產一系列即棄的紙類餐飲產品,包括紙杯、紙碟等。

業務挑戰 各式紙品包含不同顏色、質料、尺寸,令客戶在訂 購時未必可以準確形容產品型號。亦並未為有使用期限的產品 設立監控系統。

建議 香港貨品編碼協會建議光華採用國際貿易貨品編碼 (GTIN),為每種貨品編配獨一無異的識別碼,GTIN又可轉為條碼印於產品上,再以條碼掃描器將產品資料載入公司的電腦數據庫內,改善倉存管理及貨品追蹤的效率。更建議採用產品電子代碼/無線射頻識別技術(EPC/RFID)來提高供應鏈管理效率。

為了配合「先進先出」的出貨流程,必須在被掃描至電腦數據 庫的國際貿易貨品編碼中加印一個到期日條碼。

Case 3: Accurate ordering for volumes of garments 個案三:提高訂購成衣產品準確度

Company Background Delicron (HK) Ltd. is a vendor of clothing for men and children.

Business Challenge The large range of garments, sizes and colours has outgrown the inventory space and created problems with inconsistent bar coding and operational procedures.

Recommendations Delicron should streamline inventories by regular reviews and removal of the duplicated and slowselling product lines. To avoid excessive stock, Delicron can adjust the Minimum Order Quantity with suppliers.

Delicron can also consider warehousing in China or outsourcing warehousing to cope with growing inventory. To manage the goods cycles, the company can integrate several warehouses into a centralized operation and use zoning.

Other recommendations included full use of bar code scanning and regular review of the efficiency of each bar code scanning point. For goods on retail consignment, Delicron can adopt electronic point-of-sales systems, where sales data can be captured by using bar code scanners and then loaded into the company's computer.

公司資料 得利龍百貨有限公 司(「得利龍」)是男士及兒 童成衣供應商。

業務挑戰 由於成衣類產品種

類繁多,而且備有多種尺碼及顏色,令倉庫空間不足應付,並 產生條碼不一致及運作程序上的問題。

建議。香港貨品編碼協會建議得利龍須精簡庫存管理流程,包 括定期檢討並移走重覆及流量較慢的貨品。為避免積壓過多存 貨,得利龍可與供貨商協議調節最少訂貨量。

得利龍亦可以考慮採用國內貨倉或將倉存工序外判,以解決存 貨日益增多的問題。為應付不同的產品週期需要,得利龍更可 整合數個倉庫成一個中央倉庫,並設定不同區位。

其他的建議包括全面使用條碼掃描程序,並定期檢討每個條碼 掃描點的操作效率。對於寄賣的零售貨品,得利龍可以採用配 備條碼掃描的電子銷售點系統來讀取銷售數據,然後下載至公 司的電腦系統內。

Case 4: Meeting the challenge of over-stocking 個案四:應付過量存貨的挑戰

Company Background Amytel Asia Ltd. is a specialist in wireless products such as cordless phones, walkie-talkies and Bluetooth technology items.

Business Challenge The company has a large range of products, and is running short of warehouse space. Consequently, products are not stored in consistent locations and staff memorize their location, resulting in errors.

Customers phone orders and mistakes in product descriptions mean wrong shipments. Returns procedures are unclear, causing inaccuracies in the inventory records.

Recommendations To avoid over-stocking, it was suggested that Amytel reduced order quantity by partial deliveries of bulk purchase orders. Slow-moving and ageing items should be eliminated from stock.

By applying Global Trade Item Number (GTIN) on all products, assigning an individual number for each product, size, colour, and packing quantity, Amytel could improve

order placement accuracy. Inventory details can be shown on the IT system when the GTIN has been uploaded.

公司資料 奥美達(亞洲)有限公司專門經營無線產品,包括 無線電話、對講機及藍芽等產品。

業務挑戰 奥美達(亞洲)有限公司所經營的貨品種類日益繁 多,令倉庫空間不足應付,導致同一類貨品被分散存放在不同 倉位,員工亦因此而要牢記存貨位置,當中難免出錯。

客戶經電話訂貨,未能清楚形容產品型號,引致錯誤付運。退 貨流程亦不清晰,以致存貨紀錄失準。

建議 香港貨品編碼協會建議該公司要避免存貨過剩,可與客 戶協商分批運送大宗購貨訂單的貨品。並須從存貨中移走流量 較慢及長期積壓的貨品。

其他的建議包括對所有貨品採用國際貿易貨品編碼(GTIN), 為每樣貨品編配一個獨一無異的識別碼,改善落單的準確性。 當公司的電腦系統上載了產品的GTIN後,存貨資料便會被儲存 在數據庫內。

Case 5: Inventory control keeps soup packs fresh 個案五:倉存管理保持湯包新鮮

Company Background Cents Co. Ltd. is a supplier of almost 100 different packs containing the ingredients for making soups.

Business Challenge Inventory was becoming a problem, with individual types of pack being stored in more than one location. Returned products were not accurately recorded, so manually entered warehouse data was inaccurate.

Recommendations GS1 Hong Kong recommended designating warehouse zones and goods storage areas for goods in/out, storage, returned goods and waste goods with a buffer for excessive inventory. Other recommendations covered creation of procedures for handling returns.

Barcode scanners should be used to capture goods-in



used to capture goods-in and goods-out records. GS1 Hong Kong also provided consultancy on technology and costs involved in adopting bar code scanners systems linked to the IT system.

公司資料 瑞益行有限公司(「瑞益行」)為近百個品種的袋裝湯料湯包的供應商。

業務挑戰 由於產品種類日益增多,倉存方面逐漸出現問題,同一款湯包被儲存在多於一個位置。公司亦沒有準確的退貨紀錄,依靠人手輸入的倉存數據亦與實際貨物庫存紀錄不符。

建議 香港貨品編碼協會建議瑞益行將倉庫劃分不同貨區及貨品儲存區,包括明確劃分和標示收/出貨區、存貨區、退貨區及廢貨區,並設置一個緩衝區擺放過剩存貨。其他建議包括制定退貨流程。

我們亦建議瑞益行須採用條碼掃描器讀取收貨及出貨紀錄,並 可提供諮詢服務,就採用連接至資訊科技系統的條碼掃描器的 技術及成本提供意見。



How GS1 Hong Kong Can Help 香港貨品編碼協會如何協助

Inventory Management Professional Services 倉存管理專業服務

We offer professional consultancy on inventory management, comprising the following four main services: 我們提供倉存管理的專業諮詢服務。四項主要服務包括:

Plan 策劃 Supply Chain Source 採購 Make 生產 Delivery 運輸 Return 回收

Provide professional consultancy, on-site analysis and advice on the adoption of effective inventory management and achievement of operational efficiency, based on global supply chain standard.

以國際供應鏈標準為藍本,提供專 業的諮詢服務,透過實地考察、分 析及專業意見,協助企業認識及有效應用倉存管理實務,提高營運效率。

Business Process Analysis Service 商業流程分析服務

供應商評選服務 **Vendor Sourcing Service**

分析客戶需要,制定對供應商的要求 説明書,並擬定需求報價文件或建議 書,審議及分析有關建議書,再撰寫 評估報告及挑選合資格的供應商。

> Analyse customer needs to create a requirement specification for vendors, then make a short list, prepare a draft Request for Quotation/Proposal (RFI/RFP) document. Finally evaluate submissions and make a recommendation.

Help enterprises improve their supply chain efficiency based on a proven business model. The scope includes both recommending best practices for the client and integrating them with the firm's supply chain operations to improve overall efficiency.

根據成功的業界模式,幫助企業改善 供應鏈的效率。範圍包括向客戶建議 最佳實務方案,並將方案與客戶的供 應鏈運作相結合,提高整體營運效率。

Best Practice Assessment Service 最佳實務評估服務

項目管理服務 **Project Management Service**

為客戶籌組項目督導委員會及甄選項目成員,幫助供應商和用戶協商,制定可行工作時間表,與用戶及供應商定下目標進度里程表及預期項目成果,監控項目進展、質素及成效。

Set up the project steering committee and select members for customers, help the vendor formulate a work schedule, establish milestones and deliverables with the users and vendor, and monitor the progress, quality and effectiveness of the process.

For more information about the GS1 Hong Kong Inventory Management Professional Services, contact us at 852 2863 9786 or email us at member.promo@gs1hk.org.

如欲索取有關倉存管理專業服務的資料,可致電 852 2863 9786 或電郵 member.promo@qs1hk.org。

Asian Movement Gets Under Way to Bring EPC/RFID Standard to Consumer Electronics

亞洲區展開行動 引入EPC/RFID技術至電子消費品





n industry-wide initiative on RFID standards in Asia was kicked off when the first meeting of the Consumer Electronics Discussion Group was held in Tokyo, Japan, October 5-6. More than 20 leading

companies from the consumer electronics industry gathered to discuss the EPCglobal community's principles and organization and contribute to the development process of global RFID standards for consumer electronics. Over 40 delegates attended the meeting sponsored by the Japan Consumer Electronics RFID Consortium, an industry union formed by leading Japanese consumer electronics companies such as Sony, Hitachi, NEC, Sharp and Fujitsu.

The first meeting of the Consumer Electronics Discussion Group was held in Tokyo, Japan, October 5-6.

2006年10月5至6日,首個 電子消費品研討小組會議在 日本東京召開。

006年10月5至6日,首個電子消費品研討小組會議在日本 ▲ 東京召開,亦正式為電子消費品行業引入EPC/RFID技術揭 開序幕。參與是次會議的成員包括來自超過20家經營電子消費

> 品的主要企業代表。各與會代表於 會議中商討有關EPCglobal的原則和 其組織架構,投身參與制定RFID環 球標準之過程。是次會議由Sony、 Hitachi、NEC、Sharp及Fujitsu組成的 日本消費電子產品RFID聯盟(Japan Consumer Electronics RFID Consortium) 所贊助舉行,逾40位代表出席。

Asia manufacturing for global markets

Consumer electronics items tend to be of a high average value compared to fast moving consumer goods, and require more secure handling in the supply chain. Consumer electronics supply chains can also be geographically dispersed, with a high proportion of goods manufactured in Asia for global markets. A smooth passage through logistics is essential for cost competitiveness and customer service. Recovery time from errors is also extended compared to single market supply chains, so logistics performance is a key to customer retention.

Industry seeks consensus standards for better traceability

Increasingly, the brand owners of globally marketed consumer electronics products are located in Asia, especially Japan and Korea. The formation of EPCglobal's Consumer Electronics Discussion Group reflects the need for Asian industrialists and retailers to collaborate to contribute to the development of RFID standards for consumer electronics products.

Over the last three months, major players from the consumer electronics sector have agreed to form a consumer electronics discussion group and collaborated in a series of initial discovery meetings held in Hong Kong, Japan and Singapore last June - August. In future, the group can go on to define and develop EPCglobal standards to meet the needs of the industry. Although the early meetings have focused on Asia, this is a global industry and the intent is to expand the scope of the initiative to all regions.

The objective of the discussion group process is to confirm the viability of embarking upon the standards development process and to focus on determining the initial focus areas, based upon the industry's perceived needs, and the work group structure needed to cover those areas.

亞洲製造 環球市場

由於電子消費品的平均價值較快速流轉消費品的為高,所以更需 要確保其供應鏈流程的安全性。雖然電子消費品供應鏈分佈在全 球不同的地域,但大部份的產品是於亞洲區製造並供應給全球市 場。要有效控制成本及提供優良客戶服務,一個順暢的物流程序 是不可或缺的重要部分。另外,一旦遇上貨件傳送的錯誤,地域 分散的供應鏈較單一市場供應鏈需要更長的時間更正錯誤。故 此,高效率的物流處理程序,是保留顧客的關鍵要素。

業界尋求共同追蹤產品標準

近年,越來越多行銷全球的電子消費品牌由亞洲的企業集團經 營,尤其是日本和韓國。成立EPCglobal電子消費品研討小組, 正好反映出亞洲的製造商與零售商為電子消費品共同協作發展 RFID標準的需要。

過去三個月,數家大型電子消費品企業同意籌組成立電子消費 品研討小組,並於去年6月至8月期間在香港、日本及新加坡等 地合作舉行了一系列初步的研討會。研討小組將於未來逐步擬 出切合業界要求的EPCglobal標準。雖然這些會議最初是集中在 亞洲區舉行,但由於電子消費品是一個全球性的行業,所以該 小組打算將來逐步將這個議案推廣至全球其他地區。

業界舉行研討小組會議的目標,主要是確認是否可行展開一個 發展業界標準之程序,並且按行業的客觀需要定出優先處理的 範疇,以及制定出處理這些範疇的組織架構。



In Japan, the group's scope was defined as: "Any electronics sold directly to an end user through the retail system," which includes TVs, music centres, microwaves, computer gaming machines and radios.

The scope of the Consumer Electronics Discussion Group also includes the complete supply chain, from raw materials through manufacturing, logistics, distribution, retail, returns, warranty service, after sales service and final disposal of the item under any relevant regulations. Another discussion group meeting took place on December 7-8 in Korea. Over 70 delegates from the region joined the meeting and made a further step forward by forming a task force focusing on

how to enhance reverse logistics as well as the consumer electronics supply chain process with EPC/RFID technology.

Another discussion group meeting took place on December 7-8 in Korea.

另一次研討小組會議則 於2006年12月7至8日在 韓國舉行。

在日本舉行的首次研討小組會議中,小組擬定出電子消費品的 產品定義是: "任何透過零售體系直接銷售給終端用戶的電子 產品",這包括電視、音樂處理器、微波爐、電腦遊戲機及收 音機。

> 此外,電子消費品研討小組的討論範圍涉 及整個供應鏈,包括從上游廠製造原料、 物流處理程序、分銷、零售、退回、保用 服務、售後服務,以至最終按相關法例處 置產品。另一次研討小組會議則於2006 年12月7至8日在韓國舉行,超過70位來 自區內的代表參與是次會議,並進展至成

立一個專責小組,專門研究如何利用EPC/RFID技術加強逆向物 流及提高電子消費品供應鏈程序的效率。

How an industry Discussion Group adds value

Discussion Groups are meetings of both EPCglobal members and non-members from an industry sector, who discuss their needs regarding any aspect of article numbering and related technologies. A Discussion Group may become an EPCglobal Industry Action Group to develop global standards. Industry Action Groups have already been set up for fast moving consumer goods, healthcare and life sciences, transportation and logistics, apparel, fashion and footwear, and EPC standard hardware and software. Other initiatives are under way for the chemical, automotive and aerospace industries as well.

Participation in discussion groups and collaborating with global supply chain counterparts ensures that the issues and needs of an organization and a particular sector are accommodated by the EPCglobal NetworkTM. The EPCglobal Network combines standards-based numbering systems with RFID and Internet technologies to enable the secured collection and communication of real time product movement data about individual items within the supply chain.

研討小組如何為業界增值

無論是EPCqlobal成員和非成員均可一起參與其所屬行業的研討 小組會議,共同討論他們對產品編碼及相關技術的各種需要。 行業研討小組更可進一步發展成為EPCglobal業界工作組,共商 如何制定全球行業標準。目前,快速流轉消費品、醫療和生命 科技、交通和物流、成衣、時裝和鞋履以及EPC標準軟件和硬 件等行業,都已經成立了業界工作組。化學、汽車及航空等行 業現正在籌備相關的研討小組。

由於EPCglobal網絡結合標準化的編碼系統、RFID及互聯網技 術,供應鏈中個別貨件的實時數據流向可以準確地收集及傳 送。不同行業的業界成員透過參與行業研討小組,與全球供應 鏈上的不同夥伴合作,便可以確保EPCqlobal 網絡能夠切合不同 機構及行業的應用及需要。

Feasibility of using EPC/RFID to handle product recall 利用EPC/RFID處理產品回收的可行性

Because consumer electronics products are manufactured in high volume and often sold to the general public, occurrence of defects which may sometimes be dangerous is unavoidable. A product recall, for example, laptop computer lithium-ion battery packs could be very costly. As such, tagging on computer batteries is on the agenda of the Consumer Electronics Discussion Group. The Group believes standard-based information could enhance traceability in these cases, enabling items for recall to be identified from retail point of sales computer records.

由於電子消費品是大批量製造及發售,當中難免遇到回收問 題,且產品事故可能對公眾構成一定的危險。而一次的產品回 收,例如回收手提電腦鋰離子電池包,可以涉及非常高昂的代 價。故此,電子消費品研討小組於會議議程中,加入為電腦電 池標籤這個議題。研討小組認為一旦為電子消費品制定了標準 化的訊息,日後需要進行產品回收時,也會較容易進行產品追 蹤以及可從零售銷售點的電腦數據紀錄中識別需被回收產品的 資料。

Thinking Big with Reduced Space **Symbology Bar Codes**

嶄新縮減空間碼內含乾坤





RSS will enable GTIN identification

for hard-to-mark products like

RSS令一些難以註標的產品,如

新鮮食品等,都可採用國際貿易

貨品編碼(GTIN)識別。

fresh foods.



the size may be small, but the ambition behind the Reduced Space Symbology (RSS) bar code is big. RSS symbols are new bar codes, which can store more data yet occupy less space than existing bar codes using EAN/UPC symbology. In today's market, the growing sophistication of IT technology and management systems has led to demands for additional information to be carried by GS1 bar code symbols. RSS is the response to this industry need.

What can RSS do?

RSS enables expanded bar code implementation by identifying small items and carrying more information than the current symbology. It can carry GS1 Application Identifiers like serial numbers, lot numbers, and expiration dates which can better

support product authentication and traceability, product quality effectiveness, measure product identification, and couponing.

As RSS is smaller in size, it can provide more space for consumer communication or provide the option to reduce packaging in an effort to reduce the cost of goods.

It will enable GTIN identification for hard-to-mark products like fresh foods increasing shrink reduction and improving category management. It can also provide an alternative to the current "small symbol" options where numbering capacity may be an issue in some markets.

RSS is able to provide automatic identification data. As a result, it can provide retailers with greater visibility and accuracy about what they are selling and in which quantities.

子雖少,卻雄心萬丈,這正好用來形容即將全面推行 的縮減空間碼(Reduced Space Symbology,簡稱RSS)。 RSS所佔的應用空間雖然較現時適用的EAN/UPC條碼細小,但可 儲存更多數據。現今市場資訊科技及管理系統日益精確,提升 了業界對GS1條碼需要儲存更多資料的要求,而RSS正好配合這 業界需求而應運而生。

RSS具備那些功能?

RSS能夠識別細小物品,而且比現時的條碼可儲存更多資料, 擴大了條碼的應用範圍。RSS具有儲存GS1應用識別碼,如序 號、批號及有效日期等資料的功能,可以更有效支援產品真

> 偽辨證及產品追蹤,確保產品品質和效 能,亦支援不定量貨品的識別以及兑現 贈券的程序。

由於RSS面積細小,可以騰出較多產品 表面空間,讓製造商可傳遞更多消費資 訊或減少產品的包裝體積,節省成本。 RSS亦可以令一些難以註標的產品,如新

鮮食品等,都可採用國際貿易貨品編碼(GTIN)識別,為節省空 間及分類管理提供全新的支援。此外,亦可作為代替現時在某 些市場應用的"短碼"的另一選擇。

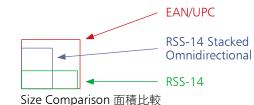
RSS能夠提供自動識別數據。憑著這些數據,讓零售商可以更 清楚了解產品的特質及數量。

RSS versus EAN/UPC symbols RSS與EAN/UPC條碼的比較



RSS-14

RSS-14 Stacked Omnidirectional



	RSS	EAN/UPC	
Scan Rate 掃描速度	No time difference 無時間差距		
Carry digits 可載數位	upto 69 digits (RSS Expanded) 可達69個數字/英文字	12/13 digits 12至13個數字	
Size 面積 upto 62% area of saving 可節省達62%應用空間		_	

Benefits to different sectors

RSS will allow new product types and special applications to be managed more completely or globally. A global task force comprising twenty-six companies, including retailers, fast moving consumer goods manufacturers, pharmaceutical companies, GS1 member organizations, and trade associations documented a compelling business case review, which highlighted implementation issues and detailed a roadmap.

Fresh foods and farm produce

With its smaller size, RSS will enable Global Trade Item Number (GTIN) identification for hard-to-mark products like fresh foods, increasing shrink reduction and improving category management. RSS can identify serial numbers, lot numbers and expiration dates, which can help trace products to a specific manufacturer and production batch. The inclusion in bar codes of expiration dates for food or other perishable products will facilitate management of stock, protecting product quality and avoiding obsolescent products. Automated mark-down of prices can be implemented as a product approaches its sell-by date, with a stop-sale provision when it is reached. The product authentication should help fight illegally copied goods as well.

Significant reduction in stock shrinkage is expected from use of RSS, due to better management of product expiration

dates that helps to avoid loss from expired products and also to increased accuracy of data capture at the Point-of-Sales (POS) by extending bar coding to products such as farm produce.

Retail

One special application of RSS is in the management of coupons redeemed by customers at the checkout. RSS codes will enable automatic management of coupon

對各行業之好處

各行各業將可更全面和全球化地利用RSS來處理新產品種類以及特別的應用範圍。目前,由26個國家的零售商、快速流轉消費品製造商、藥品公司、GS1成員組織及不同行業商會所組成的環球工作小組,已完成了個案檢討報告,當中探討了應用RSS的問題並詳述發展路向。

新鮮食品及農產品

由於RSS所佔的應用空間很少,因此可以令一些難以註標的產品,如新鮮食品等,都可採用GTIN來識別,從而節省空間及改善食品的分類管理。此外,RSS能識別序號、批號及有效日期,有助追蹤個別製造商及生產批量。在食品或容易變壞產品的條碼內加入有效日期,有助管理存貨,保障產品質素,以及避免因過期而產生報廢貨品。此外,更可預設當產品臨近保質期限時自動調低售價,並於到期日標示停止出售。除此之外,其產品真偽辨證的功能更可協助打擊非法仿製的赝品。

於RSS上加入保質日期,可以更有效管理有期限產品的到期日,避免因產品到期報廢所帶來的損失,減少產品庫存量短缺。此外,亦使銷售點(POS)能夠讀取更精確的數據,擴大RSS的應用範圍至更多產品例如農產品等。



零售

RSS其中一個特別的應用範圍, 是用來管理顧客於付款台兑現 贈券的程序。利用RSS可以自動 處理贈券到期日,減省在零售 銷售點輸入數據的程序,為收 款員及顧客節省時間。 expiration dates, and a reduction in the data entries needed at the retail POS, reducing processing time for cashiers and customers.

For books, two bar codes - International Standard Book Number (ISBN) and EAN/UPC symbology bar code are currently used in many markets, and their replacement by a single RSS bar code will increase checkout speed.

Pharmaceuticals and cosmetics

The small size of the RSS bar code will provide advantages on small products, such as pharmaceuticals and cosmetics, or products with unusually shaped packaging, where space is at a premium. The same applies to multi-lingual labelling, which allows a stock-keeping-unit (SKU) to be sold in several countries, especially in Europe.

Potentials of RSS

In recent decades, the existing bar codes using EAN/UPC symbology have provided the industry with a solid foundation for the high return on investment (ROI) associated with stock keeping unit management systems. RSS bar coding will provide the industry with a new ROI foundation that goes beyond singularities to management systems associated with a multiplicity of SKU attributes including traceability, product authentication, and category management.

How we prepare for RSS

GS1 has announced 1st January 2010 as a target date for the global adoption of RSS for any trade item. The adoption date of 2010 sets the goal for bar code systems to be capable of scanning RSS bar codes and processing GS1 Application Identifiers. In 2007, GS1 will publish the implementation guidelines to facilitate market adoption. Initial priorities were established for identification of fresh food, variable measure items, and pharmaceutical products sold at retail. In Hong Kong, GS1 Hong Kong has formed a work group to study the adoption of RSS and will start to develop an implementation

plan based on the implementation guidelines for RSS to be issued by GS1 in the first half of 2007. For more information, contact us at 852 2863 9737 or email us at info@gs1hk.org.

現時在很多市場,書籍都印有兩組條碼-國際標準書號 (ISBN)及EAN/UPC條碼。若以單一的RSS代替,便可以節省付款 的時間。

藥物及化妝品

只佔細小應用空間的RSS,有利用於表面可用空間較少的產 品,例如體積細小的藥物及化妝品,以及包裝外形特別不規則 的產品。同樣,RSS適用於需要多種語言註標的產品,讓每一 個存貨單位(SKU)的貨品可以同時在多語系的國家如歐洲等市 場內行銷。

RSS的發展潛力

過去數十年, EAN/UPC條碼一直為存貨單位管理系統概念帶來 高投資回報,為業界建立了穩固的基礎。由於RSS能夠為單一 的存貨單位帶來多種功能,包括產品追蹤、辨證產品真偽,以 及分類管理,預期這將可為業界的投資回報基礎揭開新一頁。

如何為推行RSS作好準備

GS1總部已經宣佈將2010年1月1日定為目標日,於全球所有 貿易商品上採用RSS。要於2010年達到這目標,屆時,條碼閱 讀器必須能夠支援掃描RSS及處理GS1應用識別碼。GS1將於



2007年內公布關於實行RSS的 不同指引。而RSS的應用,將 首先在識別新鮮食品、不定量 貨品,以及零售藥品上推行。 在香港方面,香港貨品編碼 協會已成立工作小組研究推行 RSS的程序,並將按GS1即將於 2007年上半年公佈的執行指引 來定出執行計劃。如欲索取有

關RSS的資料,可致電 852 2863 9737 或電郵info@gs1hk.org。

Uniqueness of RSS RSS的獨特之處

- Ability to trace a specific manufacturer and production batch
- Traceability by expiration dates of food and perishable products to protect product quality
- Better management of product recalls
- Feasibility of applying bar codes on irregular shaped products, such as curved or spherical surfaces
- 可追蹤個別製造商及生產批量
- 可加入有效日期,追蹤食品及容易變壞產品來 保障產品品質
- 可更有效管理產品回收程序
- 可應用於形狀不規則的產品上,例如弧形或球 形表面的產品

Supply Chain Maturity Reference Model Tailors SCM Best Practice for SMEs

供應鏈成熟水平參考模型 為中小企度身訂造





any SMEs need to lower their production costs to stay competitive and a supply chain maturity model can help them engineer their operational processes so as to improve the management of operations such as inventory and warehouse to achieve cost reduction.

The most widely used model, SCOR, has been adopted by hundreds of large multinationals, but SMEs, with their small size and operational scale, cannot easily benefit from it as SCOR requires companies to reach a certain maturity level in the supply chain process.

To bridge this gap, we have plans to develop a Supply Chain Maturity

Reference Model (SCMRM). The purpose of the Maturity Model is to assess SMEs' readiness for the adoption of proven supply chain models, especially the Supply Chain Council's Supply Chain Operations Reference-model (SCOR), and to become a roadmap for supply chain process improvements. The project is currently under review by the Hong Kong SAR Government's Trade and Industry Department for the SME Development Fund. The project is expected to roll out in 2007, subject to the funding approval.

多中小型企業為了維持競爭力,均需要減少生產成本。而採用一個成熟的供應鏈模型,能夠幫助這些企業重組營運流程,從而改善存貨及倉庫管理等運作程序,協助降低成本。現時廣為大型跨國企業採用的供應鏈模型是SCOR,

The purpose of the Maturity Model is to assess SMEs' readiness for the adoption of proven supply chain models.

目的是要評估中小企是否對於採用先進的供應鏈模型準備就緒。

即(Supply Chain Operations Reference-model)(供應鏈運作參考模型,簡稱SCOR)。由於SCOR較適合供應鏈流程達至一定的成熟程度的公司,故此,規模較小的中小企難以從中得益。

為了協助中小企銜接和過渡至採用 SCOR,我們正在計劃發展SCMRM,

即(Supply Chain Maturity Reference Model) (供應鏈成熟水平參考模型,簡稱SCMRM),目的是要評估中小企是否對於採用先進的供應鏈模型準備就緒,尤其是由供應鏈管理委員會制定的SCOR,然後再根據評估的結果,為需改善之供應鏈流程部份擬定指引。此計劃正交由香港特區政府工業貿易署審核批出中小企業發展支援基金。如獲工業貿易署批准撥款,我們計劃於2007年內推行這個項目。

Benefits to SMFs

Many SMEs in Hong Kong have achieved only basic organization of their inventory, warehouse, orders, assets and logistics management, and they are not able to cope with the supply chain requirements of large companies using advanced models such as SCOR. SCMRM provides step-bystep guidance on managing supply chain operations so that SMEs can immediately begin increasing their efficiency and gradually move towards using computerized systems to control their processes much more accurately, in real-time.

A ladder to reach advanced process integration

The SCMRM provides a five-level 'ladder' to enable SMEs to improve the management and integration of their operations. The goal is to improve SMEs operations by providing guidelines and best practice on operations such as inventory and warehouse management, until they can reach maturity level 3, which is the integration level and are able to integrate with the SCOR model adopted by large enterprises.

對中小企之好處

香港很多中小企對存貨、倉庫、訂單、資產及物流管理,都只 作出基本安排來應付日常的需要,尚未能達到已採用SCOR等先 進模型的大企業所要求的供應鏈水平。SCMRM為供應鏈運作管 理提供循序漸進的指引,令中小企可以於短時間內提升效率, 並逐步進展至利用電腦系統更精確並且實時的控制流程。

引領中小企達成卓越流程整合

SCMRM利用一個五級的"階梯"協助中小企改善與整合營運管 理,這五級的方案是首先向中小企提供存貨及倉庫管理等運作 的指引和最佳實務,直至他們達至第三級成熟程度,亦即整合 級別,然後便可以與大企業採用的SCOR整合。

Supply Chain Maturity Reference Model 供應鏈成熟水平參考模型

Supply Chain Maturity Reference Model defines a roadmap for SMEs to achieve SCM best practices. 供應鏈成熟水平參考模型為中小企訂定達到供應鏈管理最佳實務的藍圖。 Collaboration focuses on how to achieve synergy effect while working Collaboration 協作 with external parties 協作專注於在與外方夥伴合作時如何發揮協同作用 Optimization focuses on how to measure supply chain efficiency and how to improve efficiency Optimized 優化 優化專注於如何量度供應鏈效率及提高效率 Integration of individual operations to achieve better efficiency Integrated 整合 整合個別營運部門以提高效率 Operations are planned and managed Managed 管理 規劃及管理營運 Operations are structured and defined Operational 營運 訂定及建立營運架構 Operations under initial stage are not organized and ad hoc Initial 初步 初步階段的營運未經組織,只屬臨時性質

If local SMEs aspire to do business with those large enterprises, they need to comply with their SCM best practices. The SCMRM roadmap for SMEs to achieve SCM best practices, comprises five levels:

Level 1

Level one includes SMEs whose operations are informally managed and may not be computerized. This level is the operational level that aims to define all the applications required, including inventory and warehouse management, order processing, asset management and logistics.

Level 2

Level two considers the planning and monitoring of the same applications, using either computerized applications or manual methods, such as spreadsheets.

Level 3

Level three begins to use SCOR as the reference model, with the integration of individual applications and also the mapping of the process functions to those in SCOR.

Level 4

Level four is optimization, in which performance indices are established to measure the efficiency of each process, again using SCOR as the reference model. Inefficient processes are re-engineered.

Level 5

Level five covers collaboration with supply chain partners, in order to achieve added efficiency through synergy, including the development of standards, compliance and validation.

若本地中小企打算與大企業進行業務往來,必須符合大企業 所採用的供應鏈管理最佳實務。要達到這要求,中小企可按 SCMRM的五個級別進行:

第一級

第一級涵蓋未有正規管理營運架構,或未有進行電腦化的中小 企。這個級別屬於營運級別,主要確定應用範圍,包括倉存及 倉庫管理、訂貨程序、資產管理及物流。

第二級

第二級是利用電腦系統或以人手方式(如利用表格)策劃和監察上述範圍。

第三級

第三級開始利用SCOR作為參考模式來整合個別應用範圍,以及 將其程序功能與SCOR的相對照。

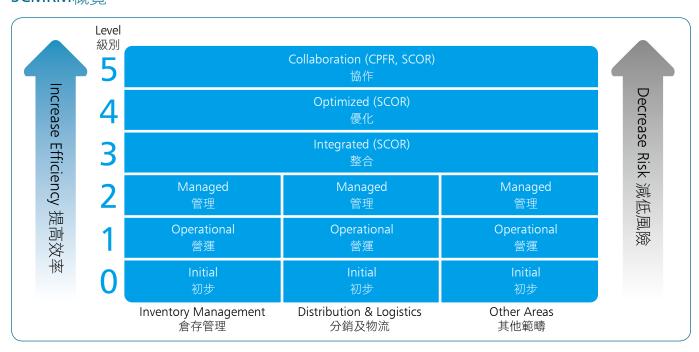
第四級

第四級是優化程序。這個級別是要設立表現指標,同樣以 SCOR作為參考模式,用以量度每個程序的效率。低效率的程序 會被重新設計。

第五級

第五級納入與供應鏈夥伴合作的基調,借助協同效應增加效率,包括訂立標準,跟隨標準以及確認標準。

OVERVIEW OF SCMRM SCMRM概覽



An easy-to-adopt model

As SMEs grow, they may need to re-engineer their existing supply chain operations to meet the international model of best practice. To avoid this, they should try to adopt best practice at the beginning, and this is where SCMRM can help them. Benefits include the ability of the SCMRM to help SMEs start in the right way from the beginning. SMEs can choose the maturity level and the operational area that they are interested in.

Comprehensive package facilitates the conception

A program will be developed to facilitate the conception of the SCMRM. SMEs participating in the SCMRM program will obtain a comprehensive package for implementation, including:

- Web-based self-assessment system for SMEs to determine their maturity level and identify areas where improvement is needed. A group of SMEs will be invited to participate in this self-assessment program. The self-assessment system will also be freely available to other SMEs. This will provide them with an indication of how useful the program could be to their company.
- SCMRM training sessions for pilots and seminars.
- Pilot case studies and shared sessions with successful industry players.
- Helpdesk support for enquiries about SCMRM.
- Bilingual SCMRM implementation guidebook.

The SCMRM program comes with implementation guidelines in both English and Chinese to facilitate its adoption.

Another goal of the SCMRM is to support the vision of integration between the Hong Kong and Pearl River Delta manufacturing base by enhancing supply chain responsiveness to global customers. To support this vision, Supply-Chain Council-Greater China will carry out a marketing and promotional campaign to promote the SCMRM and its methodology locally and overseas.

易於採用的模式

當中小企持續發展,他們或需要重組現時的供應鏈運作流程, 以達到國際最佳實務模式。為了避免這個情況,中小企一開始 便應嘗試採用最佳實務,而SCMRM正能夠幫助中小企於開始時 便採用正確方法的方案。中小企可以選擇擬參與的成熟級別及 營運範圍。

全面配套促進認識概念

參與SCMRM計劃的中小企,將獲全面實行SCMRM的配套服務來 輔助其實踐這計劃。配套服務範圍包括:

- 為中小企而設的網上自行評估系統,評估其成熟程度及需 要改善的範疇。個別中小企將被激請參加這自我評估計 劃,其他的中小企亦可免費自行使用這自我評估系統。這 個系統將可讓中小企了解SCMRM計劃是如何有利其公司 發展。
- 為SCMRM的試點用戶舉辦培訓課堂及研討會。
- 舉辦試點個案分析及與成功企業分享研討會。
- 提供SCMRM電話查詢支援服務。
- 雙語編制的SCMRM推行指南書。

推行SCMRM計劃的整個配套服務計劃均提供中文及英文版的推 行指南書,有助加快本地企業了解和採納。

此外,我們推行SCMRM的另一目的,是為了達至整合香港及 珠江三角洲生產基地的理想,從而提高供應鏈回應全球客戶要 求的應變能力。為達成這個理想,供應鏈管理委員會(大中華 區總會)亦將進行市場宣傳及推廣計劃,以在本地及海外推動 SCMRM及其實施方法。



The RFID Cross Border Feasibility Study Press Conference 無線射頻識別技術的跨境可行性研究新聞發佈會

In September, EPCglobal Hong Kong announced that truck crossing time at the Hong Kong Shenzhen border could be halved through the use of Electronic Product Code™ and Radio Frequency Identification together with a combination of selected technologies, according to an RFID cross-border feasibility study by the Hong Kong University of Science and Technology.

EPCqlobal香港於9月舉行新聞發佈會,宣佈 由香港科技大學進行的一項無線射頻識別 (RFID)技術跨境可行性研究報告。該報告顯 示利用產品電子代碼/無線射頻識別(EPC/ RFID)技術以及其他輔助技術,可以減省貨車 由香港至深圳的過境時間達一半。



The 6th Annual Supply Chain Management CEO Summit 第六屆供應鏈管理行政總裁會議



On 11 – 12 October, GS1 Hong Kong held the 6th Annual Supply Chain Management CEO Summit under the theme 'Time for Supply Chain Integration'. Over 30 local and international supply chain experts across multiple sectors spoke at the Summit, more than 300 delegates were in attendance and 24 industry-supporting organizations provided support.

香港貨品編碼協會於10月11及12日舉辦「第六屆 供應鏈管理行政總裁會議」,今屆的主題為「聯 繋夥伴 一 共拓商機」。此次會議邀請了逾30位 本地及國際供應鏈專才發表演説,超過300名業 界代表出席,並獲24家業界機構的鼎力支持。

The 8th China Chain Store Expo 第八屆中國連鎖店展覽會

GS1 Hong Kong attended the 8th China Chain Store Expo in Beijing in November 2006. Our participation in the METRO Group's Future Store Initiative at the expo demonstrates GS1 commitment to promoting the use of global supply chain standards and enabling technologies for innovating tomorrow's supply chain.

香港貨品編碼協會於2006年11月出席在北京舉 行的「第八屆中國連鎖店展覽會」,參與由麥 德龍集團(METRO Group)於展覽會中展示的未來 商場計劃(Future Store Initiative)。這次的參與, 充分顯示GS1致力向業界推廣採用全球供應鏈 標準及應用技術,革新明天的供應鏈。



The ITU Telecom World 2006 國際電信聯盟2006年世界電信展



Mr. KK Suen, Chief Architect & Principal Consultant of GS1 Hong Kong, was honored to be invited as one of the panelists in the forum session "Digital Lifestyles@Work" at ITU Telecom World 2006.

ITU Telecom World 2006, which is regarded as the "Olympics" of the telecommunications industry, was successfully held on 4 - 8 December 2006 at

the AsiaWorld-Expo in Hong Kong. It is the most important event of the International Telecommunications Union (ITU) for the worldwide telecom industry. This was the first occasion that the ITU Telecom World 2006 was held outside of Geneva, Switzerland since it was inaugurated in 1971.

At the forum, Mr. Suen shared with other panelists and audiences his insights into how EPC/RFID are making our work-time more efficient. GS1 Hong Kong also provided exhibits in Hong Kong Science & Technology Parks Corporation's show booth.

香港貨品編碼協會總工程師及首席顧問孫國江先生獲邀 為嘉賓講者出席國際電信聯盟2006年世界電信展其中一 個名為 "Digital Lifestyles@Work"的論壇。

被電信業界譽為 "奧林匹克"的國際電信聯盟2006年世 界電信展,於2006年12月4至8日在香港之亞洲國際博覽 館成功舉行。世界電信展是國際電信聯盟(ITU)為全球電 信業舉辦的一項最重要活動。是次在本港舉行的2006年 世界電信展,是自1971年以來,首次在瑞士日內瓦以外 地區舉行的世界電信展。

孫先生在論壇上就產品電子代碼/無線射頻識別(EPC/ RFID)技術如何提高工作效率這個議題上,與其他與會 代表分享其深刻見解。我們並於香港科技園公司的展覽 攤位內展示服務品。

The Annual Members Gathering 2006 2006周年會員晚宴



About 300 members and business partners attended GS1 Hong Kong's Annual Members Gathering 2006 on 8 December 2006. The theme this year was "Innovation for Supply Chain Efficiency and Visibility" and the event highlight

was a video showing five case studies of SMEs which were counseled under the "SME Ambassador Program – Inventory Management". The gathering also provided an opportunity to relax and socialize in a friendly atmosphere, with dinner and entertainment.

約300位會員及業務夥伴出席由香港貨品編碼協會於2006年12月8日舉辦的2006周年會員晚宴。今年的晚會以「高效供應鏈-一點創意,全面體現」為題。於當晚的活動摘要環節,大會播放受惠於「中小型企業大使計劃-倉存管理」的五間中小型企業的個案分享。是次晚會為各會員及其業務夥伴提供了一個聚首暢談的良好機會,讓大家在輕鬆的氣氛下共享美食及各項娛樂節目。

GS1 Hong Kong Events 香港貨品編碼協會活動

	Events 活動	Date 日期	Venue 地點	Contact Details 聯絡資料
	The Supply Chain Innovation Centre Opening Ceremony	01/02/2007	Hong Kong Science Park 香港科學園	Tel 電話: (852) 2861 2819 Email 電郵: info@scic.org Website 網址: www.scic.org
	供應鏈創科中心開幕儀式			Co-Hosts: GS1 Hong Kong The Hong Kong Science & Technology Parks Corporation 主辦機構: 香港貨品編碼協會 香港科技園公司
	International ICT Expo/ Hong Kong Electronics Fair (Spring Edition)	14-17/04/2007	Hong Kong Convention and Exhibition Centre 香港會議展覽中心	Tel 電話: (852) 2584 4333 Email 電郵: exhibitions@tdc.org.hk Website 網址: http://ictexpo.com
	國際資訊科技博覽/香港春季電子產品展			Organizer: Hong Kong Trade Development Council 主辦: 香港貿易發展局 Supporting organizer: GS1 Hong Kong 支持機構: 香港貨品編碼協會

GS1 Hong Kong Training Programs 香港貨品編碼協會培訓課程

	Events 活動	Date 日期	Venue 地點	Contact Details 聯絡資料
	EPC/RFID Industry Implementation Forum EPC/RFID業界實踐論壇	01/02/2007	Hong Kong Science Park 香港科學園	Tel 電話: (852) 2861 9724 Email 電郵: florencelo@gs1hk.org
	Barcode Workshops 條碼工作坊	06/02/2007 29/03/2007 16/05/2007	GS1 Hong Kong Office 香港貨品編碼協會辦公室	Tel 電話: (852) 2863 9769 Email 電郵: michellecheung@gs1hk.org
	VAP Seminars 供應商夥伴計劃講座	28/02/2007 27/03/2007 23/05/2007	GS1 Hong Kong Office 香港貨品編碼協會辦公室	Tel 電話: (852) 2863 9773 Email 電郵: florrieay@gs1hk.org

Remark: This proposed schedule is subject to change.

按: 以上時間表會因應實際情況而改變。



Complimentary Member Listing

會員名錄

GS1 Hong Kong welcomes the following companies as our new members

香港貨品編碼協會歡迎以下公司成為本會會員

Sep - Dec 2006

APPAREL & ACCESSORIES 成衣及飾物

ALDERTEX (HK) ITD ANWAY ENTERPRISES LTD BEST REGARDS STUDIO C K HAIR INTERNATIONAL LTD CLASSICHANCE INTERNATIONAL LTD CO-BEST APPAREL HK CO LTD COMTECH WATCHES (BRANDS) CO LTD CONCORD TRADING DEVELOPMENT CO DELTA GLOBAL SOURCING LTD EPY (HK) INTERNATIONAL LTD EXCELLENT JADE LTD GREAT LIGHT LTD **GUESS? ASIA LTD** JOYFUL MILES LTD K C K GARMENT FTY LTD KALYFF INDUSTRIAL ITD KAM HING GLOBAL GARMENT CO LTD KENT KNITTERS LTD LATITUDE LTD LAWS FALCON APPAREL CO LTD NAM HUNG HANDBAGS INDUSTRIAL LTD NEWPORT INTERNATIONAL CO LTD PRIMAVERA PRODUCTION LTD SAMMART FASHION CO LTD SOUTH ASIA KNITTING FTY LTD SWANK INTERNATIONAL OPTICAL CO LTD TAKKO INTERNATIONAL LTD TRADER LAND LTD TREND RESOURCES LTD WOOF CO LTD

BUSINESS / PROFESSIONAL SERVICES

WOOT FOONG GARMENTS CO

CELESTIAL DIGITAL ENTERTAINMENT LTD REASON MUSIC & MEDIA (HK) LTD SYBASE HONG KONG LTD TIANPING INTERNATIONAL PUBLISHING LTD

EOUIPMENT & MACHINERY 器材及機械產品

CANON ELECTRONIC BUSINESS MACHINES (HK) CO LTD COILS ELECTRONIC CO LTD DONGNAN LTD EPSON HONG KONG LTD FMP-3 LTD FUJI MEDICAL PRODUCTS LTD FUNG SHING CO LTD GPI IMAGING CO LTD GREAT WALL (OPTICAL) PLASTIC WORKS LTD ISHOPPO LTD MANTECH TECHNOLOGY (HK) LTD NEC HONG KONG LTD NEUX CORPORATION LTD ONKYO CHINA LTD **QWESTER LTD** STARVIEW INTERNATIONAL TRADING LTD SUPPLY CONSULTANTS LTD SYNNEX TECHNOLOGY INTERNATIONAL (HK) LTD TANOSHII CO LTD TOUCH TECHNOLOGY LTD UTOPIAN COMPUTER SYSTEMS LTD XPERIENCE HONG KONG LTD

FOOD PRODUCTS, BEVERAGES & TOBACCO PRODUCTS 食品、飲料及煙草產品

AMERICAN LIFE SCIENCES (HK) LTD ASA PACIFIC (HK) LTD

CHUN WO TONG GROUP LTD CHUNG WAH NOODLE FACTORY D Q XIANG FOOD PRODUCTS (HK) LTD EVERJOY INTERNATIONAL LTD

GOLD WORTH TRADING CO

ASIAN LINKER HOLDINGS LTD

CHINESESOUP.COM LTD

HAGO LTD

HEALTHY HOUSE INTERNATIONAL TRADING LTD

BAK WUI NUTRITION & PHARMA PRODUCTS LTD

HIP SHING HONG MEDICINE LTD HONG FUK TONG (HK) CO LTD INWAY DISTRIBUTION CO LTD KONG ZHI FAT TRADING CO LTD LAM GARDEN SPICE CO

I AND VITD LING LEE INTERNATIONAL LTD

LO HONG KA BIRDNESTS WHOLESALE LTD

LONGWIN GROUP ITD LUXUWAYS INVESTMENTS LTD MAN KEE SOY SAUCE FOOD CO MANY WAY TRADING CO LTD MEATY FOODS CO LTD MINI (HK) CO LTD

NAMABLE HEALTH VEGETARIAN FOODS CO LTD PHOENIX SHANGHAI TOBACCO LTD PINGZHI FOODSTUFF (HK) CO LTD

PIZZA HUT HONG KONG MANAGEMENT ITD QUANTUM HOMOEOPATHY INTERNATIONAL LTD TCH CO LTD

THUNDER CHEER LTD VEYRON ENTERPRISE

WING LEE LUNG TRADING CO LTD

HOUSEHOLD GOODS 家庭用品 AIRLUX ITD

ALPHA TOOL COM HK LTD APEX CAPITAL LTD ASIA COMBINE (HK) CO LTD ASINDO CHINA NETWORK LTD B2B-ASIA LTD BBK ELECTRONICS CORPORATION LTD BEST HOPEFUL INDUSTRIAL DEVELOPMENT LTD BONDIBON CREATURES CO LTD BRATTYMARY LTD CARRIER HONG KONG LTD CARTABON INDUSTRIES LTD CHINA H&L INTERNATIONAL DEVELOPMENT CO LTD CHU KWUN KEE METAL MFY LTD CREATA (HK) LTD

CREATIVE FOODSERVICE & PACKAGING LTD CULINARY CONCEPTS LTD

CUTEZONE LTD DEKKO TOYS CO LTD ELITE PORT LTD ENTERBAY LTD EXPRESS LINK HOLDINGS LTD FUN WORLD (ASIA) LTD

GRANDEX INTERNATIONAL DEVELOPMENT LTD

GRUPO TRANS-CONTINENTAL LTD

GSL LTD ICHI TECHNOLOGY LTD ILINKO LTD

ITALY ARSTO GROUP HOLDING (HK) CO LTD KELVIN ELECTRIC TRADING CO LTD

KNOLLSON (HK) LTD KOUWA (HK) LTD LG ELECTRONICS HK LTD LIHYHIN ITD

LINEN HOUSE INTERNATIONAL LTD MASINDO (HK) LTD NOVA INTERNATIONAL CO LTD OHO INTERNATIONAL INVESTMENT CO LTD

ORIENTAL GREETING INC CO LTD

ORTIKGA LTD

OUTDOOR INNOVATIONS (HK) ITD PACIFIC GEAR INTERNATIONAL LTD
PET 1 INTERNATIONAL HOLDINGS LTD

PETER FISH (HK) ITD PHOS TRADING CO LTD **OUAITECH GIORALITD** RRR CO (ASIA) LTD SEDNA ADVANCED ELECTRONICS LTD

SIMPLE THINGS IN LIFE LTD SKILLS CORPORATION LTD SKY CHAIN TRADING LTD SKYMATE INTERNATIONAL ITD SNOWMEN NEOGIFT ENTERPRISES LTD SUNRISE INTERNATIONAL CORPORATION LTD

SUPRA TECHNOLOGIES LTD TRAVELER HONG KONG CO LTD TRENDS LTD

UNEXPECTED ELEPHANT UNIQUE CREATION MARKETING LTD UNISTAR (ASIA) LTD

VISION TOYS (HK) LTD VTECH ELECTRONICS (HK) LTD WAIPHOON (CHINA) LTD WO KEE HONG LTD

LIGHT INDUSTRIAL 輕工業產品

CHAMCO CHEMICAL CO LTD CITI-TALENT LTD GROTTO DESIGN CREATIONS LTD HONG KONG FOCUS TRADING CO LTD KA WAH PLASTIC INDUSTRIAL CO LEGEND PACIFIC INTERNATIONAL LTD PROWERK ASIA LTD THE PEDAGOGS LTD TOPTYPE PLASTIC PRODUCTS (HK) CO TRENDESIGN STUDIO LTD

RAW MATERIALS, METAL & CHEMICAL PRODUCTS

原料、金屬及化學產品 ANDROMEDA AROMA LTD ASIALINK ORGANIMATE LTD ASTAR INVESTMENT LTD AURORA WORLDWIDE LTD FUNG WAH (HK) CO H G KAILEY & CO LTD

HONG KONG SUNRISING GROUP CO LTD HONG KONG WEIQIAN COSMETIC HOLDINGS LTD

JIREH CHEMICAL LTD MIZY ASIA CO LTD OLIVE GROUP (HK) LTD PA CARE CO LTD SARA LEE HONG KONG LTD SINGAPORE HEADWAY MEDICINE CO SKY CENTRAL HOLDINGS LTD SKYLIGHT PHARMACEUTICAL CO LTD SOUTH KOREA XOER (INT'L) GROUP LTD TACK FUNG MEDICAL SUPPLIES CO TAKBO LTD YING SING TRADING CO YOUNG BEST INTERNATIONAL LTD

YUK SHING HON CORPORATION LTD

To contact GS1 Hong Kong members, please visit the "GS1 Global Membership Directory" on our website at www.gs1hk.org 欲聯絡本會會員,請登入本會網站 www.qs1hk.org 之「GS1全球會員名錄」





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